

HindIII site of a pUC18 or pQE30 vector was used as a template. The concrete PCR conditions
C3
are preferably as follows: 16 cycles at 95 °C for 30 sec, 55 °C for 1 min, and 68 °C for 10 min.--

IN THE CLAIMS

Kindly cancel claims 10 and 15 without prejudice.

Please consider the following amended claims:

9. (Twice Amended) DNA encoding a fluorescent protein comprising the amino

C4 acid sequence set forth in SEQ ID No. 1, said sequence consisting of the three mutations
Phe64Leu, Val163Ala and Ser175Gly.

12. (Twice Amended) DNA encoding a fluorescent protein comprising the amino

C5 acid sequence set forth in SEQ ID No. 1, said sequence consisting of the four mutations
Tyr66His, Tyr145Phe, Phe64Leu and Leu236Arg.

14. (Twice Amended) DNA encoding a fluorescent protein comprising the amino

C6 acid sequence set forth in SEQ ID No. 1, said sequence consisting of the six mutations Tyr66His,
Tyr145Phe, Phe64Leu, Val163Ala, Ser175Gly and Leu236Arg.

17. (Amended) A method of visually analyzing gene expression or protein

C7 localization in a cell comprising the steps of:

(a) providing a cell transected with a vector comprising the DNA of any of
claims 8 or 9;

(b) culturing the cells under conditions to express a fluorescent protein encoded by the vector; and

C7 (c) detecting the presence of the fluorescent protein.

19. (Amended) A method of visually analyzing gene expression or protein localization in a cell comprising the steps of:

C8 (a) providing a cell transected with a vector comprising the DNA of any of claims 11, 12, 13, 14 or 16;

(b) culturing the cells under conditions to express a fluorescent protein encoded by the vector; and

(c) detecting the presence of the fluorescent protein.